**M 110 X 130 X 15**

**Item number 301439**

**Technical data**

- **Outer ring material**: Aluminum (GD AlSi 12)
- **Inner ring material**: Unalloyed construction steel
- **Inner diameter ID**: 110 mm
- **Outer diameter OD**: 130 mm
- **Installed width W**: 15 mm
- **Sealing gap**: Horizontal
- **Axial play \( S_{ax} \)**: 0.7 mm
- **Radial play \( S_{rad} \)**: \( S_{rad} = S_{ax} / \tan (42.5^\circ) \)
- **Gap diameter \( e \)**: 125 mm
- **Gap height**: Constant 0.2–0.5 mm (depending upon size)
- **Keyway width \( c \)**: 5 mm
- **Speed limit**: 9500 rpm
- **Weight**: 0.2851 kg
- **Operating temperature \( t \)**: -40° - 200°C

*Aluminum outer ring

The aluminum outer ring can be slightly non-round as supplied. By pressing in the seal, the relatively easily deformable ring fits the roundness of the hub. The outer ring can be up to 0.1 mm wider than the inner ring due to manufacturing. GMN metal labyrinth seals are pressed through a calibration ring ('zero dimension'). The outer ring then springs back due to its elasticity.

**Entire movability from one end position to the other.**

Heavy and direct splashing liquids could be drained through a certain number of grooves in the outer ring into a circular groove inside the housing; Width of the circular groove in the customer part: \( R = c + 1 \text{ mm (c = Keyway width)} \)

**Installation**

\[ l = 0.1 \times B \]

**Component tolerances**

Surrounding structure (mating parts)

- **Housing**: K7 / **Shaft**: h6
- **Surface quality**: \( Rz \leq 16 \mu m; \ R_a \leq 3.2 \mu m \)